

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P580163

Luminaire Tested: **HVSL12-2-LD4-3LO-30-UNV-O-EDD-90**

Issue Date: 12/16/2022



Test Information

Test Method: LM-79-08
Report Number: P580163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-135-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: HVSL12-2-LD4-3LO-30-UNV-O-EDD-90
Description: 2 FOOT, 12INCH WIDE, HVSL LED LUMINAIRE, WITH 3000K, 90 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

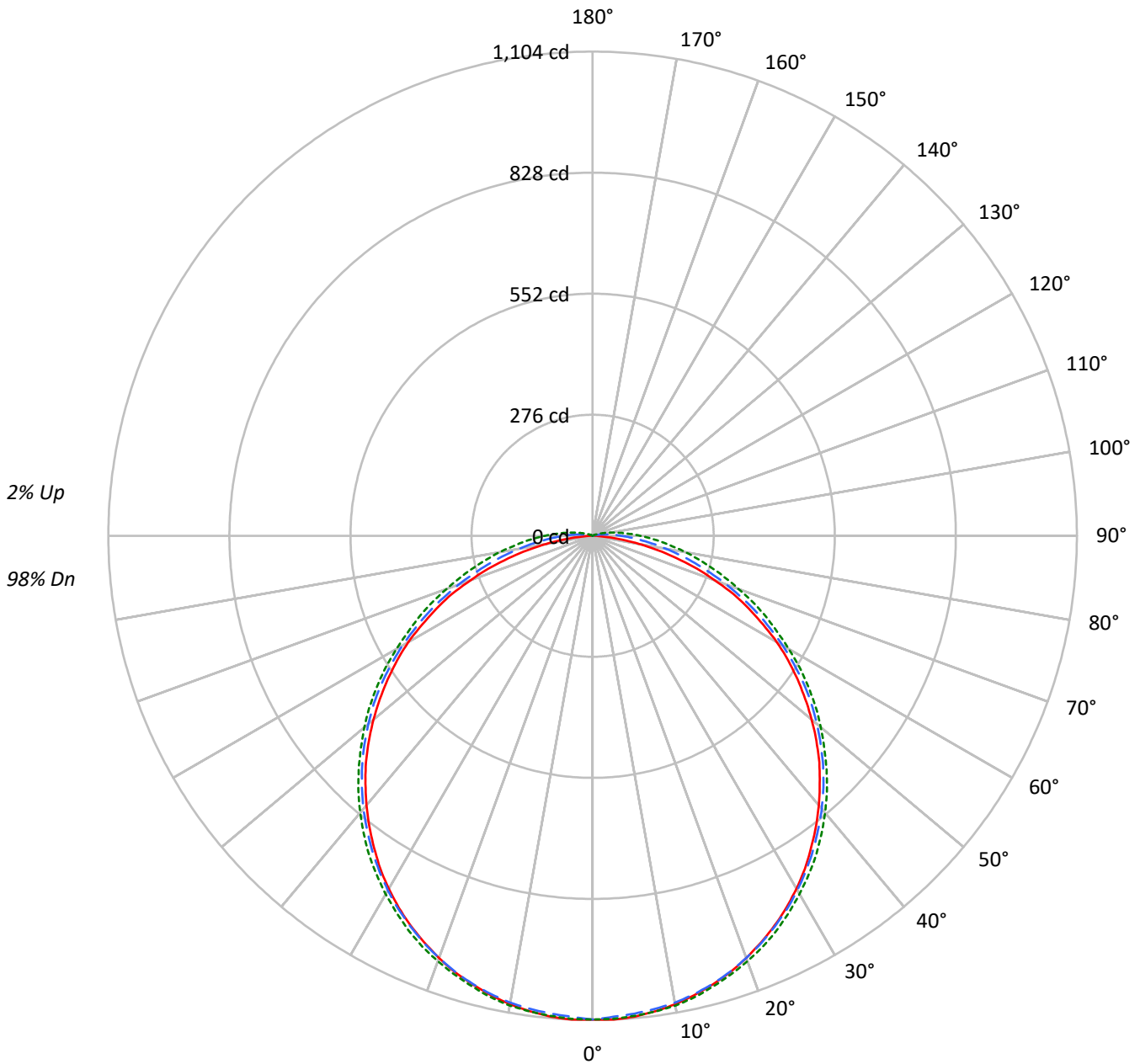
Lumens per Lamp: N/A
Luminaire Lumens: 3335.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P580163

CATALOG NUMBER: HVSL12-2-LD4-3LO-30-UNV-O-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101				98
1	108	102	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83				81
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69				67
3	89	78	69	63	86	76	68	62	73	66	61	70	64	59	67	62	58				56
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	54	50				47
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43				41
6	69	55	46	40	67	54	46	39	52	45	39	50	44	38	49	43	38				36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34				32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30				28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27				25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5936	5936	5936
5°	5903	5819	5851
10°	5843	5729	5775
15°	5771	5627	5672
20°	5695	5511	5573
25°	5608	5392	5470
30°	5510	5264	5348
35°	5392	5121	5227
40°	5268	4971	5081
45°	5134	4806	4920
50°	4965	4614	4744
55°	4781	4403	4548
60°	4564	4123	4313
65°	4234	3808	4085
70°	3776	3434	3816
75°	3147	3023	3593
80°	2254	2623	3425
85°	1085	2226	3333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.1
10°-20°	299.4	9.0
20°-30°	454.3	13.6
30°-40°	549.3	16.5
40°-50°	573.2	17.2
50°-60°	524.1	15.7
60°-70°	408.5	12.2
70°-80°	255.6	7.7
80°-90°	116.1	3.5
90°-100°	38.9	1.2
100°-110°	9.8	0.3
110°-120°	1.5	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	858.1	25.7
0°-40°	1407.4	42.2
0°-60°	2504.6	75.1
0°-90°	3284.8	98.5
90°-120°	50.2	1.5
90°-150°	50.2	1.5
90°-180°	50.0	1.5
0°-180°	3335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1101	1099	1094	1099	1099	105
15°	1059	1061	1058	1064	1064	299
25°	981	982	983	991	993	452
35°	868	872	876	885	888	544
45°	731	737	743	750	754	563
55°	570	577	588	596	600	509
65°	392	399	412	429	436	388
75°	198	211	241	270	280	211
85°	34	63	109	144	157	43
90°	0	24	64	96	108	1
95°	0	6	33	60	70	0
105°	0	1	6	16	22	1
115°	1	1	1	3	4	1
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P580163

CATALOG NUMBER: HVSL12-2-LD4-3LO-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.0	1103.0	1103.0	1103.0	1103.0
2.5°	1104.3	1102.8	1097.8	1102.8	1102.5
5°	1100.7	1098.6	1093.7	1098.9	1098.9
7.5°	1093.4	1092.6	1088.2	1094.2	1094.2
10°	1084.8	1084.6	1080.9	1087.4	1087.7
12.5°	1072.9	1073.9	1070.5	1076.8	1077.5
15°	1058.8	1060.6	1057.8	1063.8	1063.5
17.5°	1043.5	1044.5	1042.4	1049.2	1048.9
20°	1024.5	1025.8	1024.2	1031.3	1032.0
22.5°	1003.4	1005.2	1005.0	1012.3	1014.3
25°	981.1	981.8	982.9	991.2	992.8
27.5°	956.4	957.7	959.5	967.0	968.6
30°	929.3	931.4	933.5	941.3	943.4
32.5°	900.7	902.8	905.4	915.5	916.6
35°	868.5	872.4	876.0	884.9	888.5
37.5°	836.2	841.2	844.6	853.9	856.8
40°	802.2	807.1	812.6	822.5	824.3
42.5°	766.5	772.3	778.8	787.6	790.7
45°	730.7	737.2	743.1	750.4	754.1
47.5°	691.9	698.4	705.7	714.0	716.4
50°	651.9	659.4	667.2	675.0	679.2
52.5°	610.8	619.9	628.7	637.1	641.0
55°	570.2	577.0	587.7	596.2	600.1
57.5°	528.1	533.8	543.4	557.5	559.6
60°	485.2	490.4	500.3	511.7	516.4
62.5°	437.9	444.9	455.3	469.9	474.0
65°	391.9	398.6	412.4	428.8	435.5
67.5°	347.4	349.7	367.4	384.6	395.5
70°	294.9	303.7	324.2	345.3	353.6
72.5°	249.6	258.5	281.1	305.8	316.2
75°	198.4	210.6	241.3	270.2	280.3
77.5°	153.4	166.9	204.9	234.0	245.7
80°	107.1	128.2	169.5	202.3	215.0
82.5°	67.3	93.3	137.6	171.9	183.1
85°	34.3	63.4	108.9	144.1	156.8
87.5°	9.1	41.1	84.8	118.3	131.3
90°	0.3	23.7	64.2	96.5	108.2
92.5°	0.3	13.3	47.8	76.7	88.7
95°	0.3	6.2	33.3	60.3	69.7
97.5°	0.3	2.6	22.9	45.5	54.9
100°	0.3	1.3	14.6	33.0	41.1
102.5°	0.5	0.8	9.1	23.7	30.2
105°	0.5	0.8	5.5	16.1	21.6



TEST NUMBER: P580163

CATALOG NUMBER: HVSL12-2-LD4-3LO-30-UNV-O-EDD-90

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	1.0	4.4	6.5
115°	0.8	0.8	1.0	2.9	4.2
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	0.5	0.8	3.1	10.9	14.8
110°	0.8	0.8	1.8	6.8	9.9



(END OF REPORT)